

CYLINDRAFlow™ Manifolds:

SIMPLIFYING PROCESS APPLICATIONS

CYLINDRAFlow™ Manifolds:

A New Offer that Simplifies Processing Applications

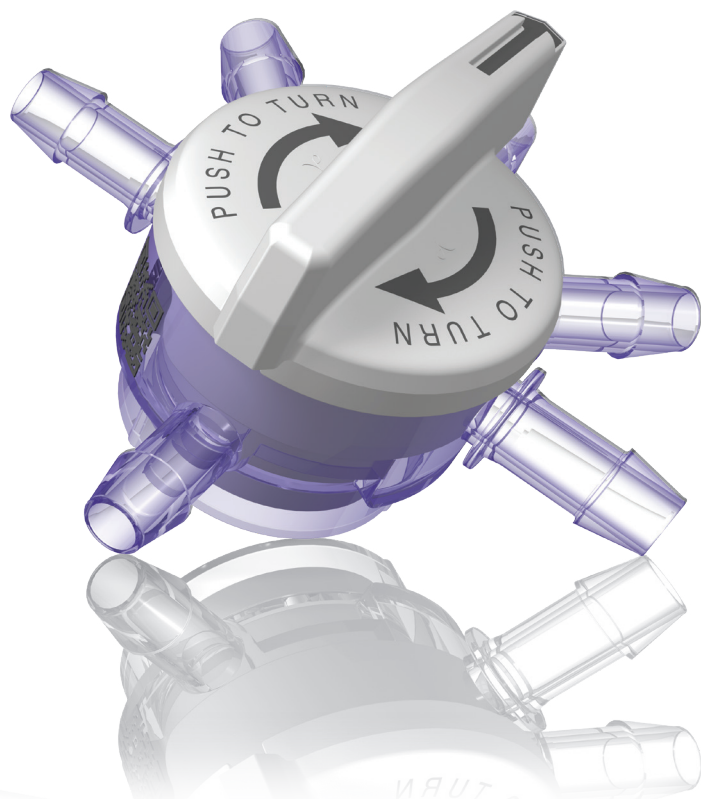
Introduction:

Nordson MEDICAL has announced a new manifold that makes assembly and operation simpler compared to products currently used in the industry. This patent-pending product was announced atACHEMA in Frankfurt, Germany in 2018.

Simplicity is the main benefit of the design and user interface built into CylindraFlow™. There is a one-to-one relationship between the inlet port and the five available outlet ports. The large, easy to use handle with clearly marked arrows provides a visual indication of which outlet port is in use, and once properly positioned, the handle locks in place, assuring the operator that the flow path is set up correctly and that it can't accidentally change.

APPLICATIONS:

- Sampling
- Large-volume fluid transfer
- Filling
- Anywhere large manifolds are used today



Why CYLINDRAFlow™?:

CYLINDRAFlow™ manifolds offer a clean, simple solution for fluid transfer by simplifying assembly and improving the ease of operation.

Keeping a consistent flow from the inlet port, around the manifold, and through an outlet port, users can easily operate the manifold and transfer fluids to storage bags. Nordson MEDICAL suggests using the previously used port for flushing to reduce cross contamination and any dead leg concerns. The handle can be moved backwards to accomplish this. Once the flushing operation is complete, the operator can either use a **PharmaLok™** tube clamp or tubing sealer to close off that flow path.

PharmaLok™ offers superior shutoff to ports not in use, while allowing the flexibility of opening flow again to accomplish the flushing operation.



MAXIMUM PRESSURE:
15 psi (1.0 bar) liquid rated

A QR code engraved on the side of the product gives users easy access to the Nordson MEDICAL website where they will find video tutorials, material information, and the necessary regulatory documentation. This gives operators on the floor of a class 4 cleanroom access to information they need in real time as well as the ability to order additional manifolds at the touch of a button. In addition to an already complete package of regulatory data, BPOG Protocol testing data will be available later this year.



BODY & FLOW SELECTOR:
Gamma Stable Polycarbonate

GASKET:
Platinum-Cured Silicone

The barbs are sized to support 3/8" (9.5 mm) ID tubing and are designed specifically to work with industry preferred silicone and TPE style tubing. The manifold is made from industry standard polycarbonate with a platinum-cured silicone internal seal. The only material that will come into contact with the drug product are the polycarbonate housing and the silicone seal.

Conclusion:

CYLINDRAFlow™ replaces older assemblies like ganged stopcocks and multiple leg manifold arrangements of fittings and pinch clamps. These types of arrangements have been the typical solution for many years, but they lack the ease of assembly offered by this product. The simplicity of this part means that designers reduce their footprint inside of clean rooms. As one customer recently put it, this reduces the number of connections, shut-offs, and disconnections that need to be made in a typical production process.

The major applications for this new product are sampling, large-volume fluid transfer, filling, and anywhere where the one-to-one port relationship is important. The perfect solution for high-volume fluid transfer, CYLINDRAFlow™ is ideal in situations where product needs to transfer from a 1,000 liter bioreactor to five 200 liter storage bags, for example. For any of the applications, if more than five outlet ports are required, the last port can be daisy chained to additional units.



FOR AN IN-DEPTH DISCUSSION OF THIS TOPIC, DOWNLOAD OUR FULL TECHNICAL PAPER:
CYLINDRAFlow™ Manifolds: Simplifying Processing Applications.

About Nordson MEDICAL

Nordson MEDICAL is a global expert in the design, development, and manufacturing of complex medical devices and component technologies. We serve interventional, surgical, and specialized markets with technologies that save or enhance lives. As an integrated, single-source partner, we enable our customers to save costs and speed time to market.

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